PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference SE/2-22864	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/EP2004/050308	International filing date (day/month/year) 15 March 2004 (15.03.2004)	Priority date (day/month/year) 25 March 2003 (25.03.2003)]			
International Patent Classification (IPC) or national classification and IPC 7 C09B 29/32					
Applicant CIBA SPECIALTY CHEMICALS HOLDING INC.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	. This report contains indications relating to the following items:				
	Box No. I	Box No. I Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 01 October 2005 (01.10.2005)		
The International Bureau of WIPO 34, chemin des Colombettes			Authorized officer Ellen Moyse		
1211 Geneva 20, Switzerland Facsimile No. +41 22 740 14 35			Telephone No. +41 22 338 89 75		
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

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		see form	PCT/ISA/220		WRIT	TEN OPINION	OF THE	
							NG AUTHORIT	Υ
					(F	PCT Rule 43 <i>bi</i>	s.1)	
					Date of mailing (day/month/year) see	e form PCT/ISA/210 (s	second shoot)	
App	licant's	or agent's file	reference		, , , , , , , , , , , , , , , , , , , ,			
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			DI ILIVIIOALO II	OLDING INC.				
1.	Thie	oninion oc	ntoino indicati					
١				ons relating to the follo	owing items:			
		Box No. I	Basis of the op	inion				
		Box No. II Box No. III	Priority					
	_	Box No. IV	Lack of unity of	nent of opinion with rega	rd to novelty, inventive	e step and industria	l applicability	
		Box No. V	Reasoned state	ement under Rule 43 <i>bis</i> tations and explanations	1(a)(i) with regard to r	novelty, inventive st	tep or industrial	
	□в	Box No. VI	Certain docume		supporting such state	ment		
	□в	ox No. VII	Certain defects	In the international app	lication			
	□в	lox No. VIII	Certain observa	ations on the Internation	al application			
2.	FUR'	THER ACTI	ON					
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the international Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the international Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
	For fu	urther option	s, see Form PC	T/ISA/220.		- .		
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Name	and m	ailing address	s of the ISA:		Authorized Officer		- 9.1-	\exists
		European P	atent Office				Sherther Live Line	
	<u>""</u>	D-80298 Mt Tel. +49 89	inich 2399 - 0 Tx; 5236	56 epmu d	Bakboord, J			
		Fax: +49 89	2399 - 4465	- F	Telephone No. +49 89 2	2399-2168		

Form PCT/ISA/237 (Cover Sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/050308

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_	_ <u>B</u>	ox V	lo. I Basis of the opinion				
1	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.						
			his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).				
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a.	type	of material:				
			a sequence listing				
			table(s) related to the sequence listing				
	b. format of material:						
			in written format				
			in computer readable form				
c. time of filing/furnishing:							
			contained in the international application as filed.				
			filed together with the international application in computer readable form.				
			furnished subsequently to this Authority for the purposes of search.				
3.		CO	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as poropriate, were furnished.				
4.	Additional comments:						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/050308

-	- Ro	x No. II	Driority				
-		X 140. II	Priority				
1.	. Mark The following document has not been furnished:						
		\boxtimes	copy of the earlier ap	plicatio	n whose pri	ority has been claimed (Rule 43bis.1 and 66.7(a)).	
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).				
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.						
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.						
3.	Add	ditional o	bservations, if necess	sary:			
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		k No. V ustrial a	Reasoned stateme	ent und	ler Rule 43 <i>t</i>	vis.1(a)(i) with regard to novelty, inventive step or supporting such statement	
1.		tement	pp out of the second	o una (s supporting such statement	
• •							
	Novelty (N)			Yes:	Claims	1-11	
				No:	Claims		
Inventive step (IS)		ep (IS)	Yes:	Claims	1-11		
				No:	Claims		
Industrial app		ustrial ap	plicability (IA)	Yes:	Claims	1-11	
			, , ,	No:	Claims		
			•				
2.	Cita	tions an	d explanations				

see separate sheet

- V Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- V.1 The present invention relates to monoazoquinolone pigments and their use as colorants especially for colouring high molecular weight material.
- V.2 Reference is made to the following documents:

D1: US-A-3 119 808

D2: DE 27 49 734 A

D3: US-A-4 012 371

D4: US-A-3 941 766

D5: GB 896 472 A

D6: GB-A-1 445 066

V.3 Novelty

All the documents disclose monoazoquinolone pigments derivatives differing from the compounds of formula 1 in that the group Ar_1 is replaced by a methyl group.

A compound of formula 1 is disclosed in none of the documents. Claims 1-7 therefore fulfill the requirements of Art 33(2) PCT.

Claim 8 describes a process for preparing compounds of formula 1 and is novel by consequence.

Claims 9-11 describe the use of compounds of formula 1 and are novel by consequence.

V.4 Inventive step

Starting from documents D1-D6 the problem to be solved by the present application may be regarded as how to provide novel possibly improved monoazoquinolone pigments. The solution of the applicant resides in providing monoazoquinolone pigments in which the methyl group is replaced by a group Ar₁. The applicant shows in the examples that the compounds of the present application lead to pigments with good colouristic properties. As the structural

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/050308

changes have not been made obvious by the prior art the solution of the applicant may be regarded as involving an inventive step (Art 33(3) PCT).